

WHAT IS CLAIMED IS:

1. A remote maintenance system in which a maintenance center
in charge of remote maintenance is connected to an
5 apparatus-to-be-maintained by a communication channel and
a maintenance monitor mechanism is installed in the
apparatus-to-be-maintained or on the communication
channel; wherein

10 the maintenance monitor mechanism comprises of
a maintenance control section that controls and carries
out remote maintenance of the apparatus-to-be-maintained,
a maintenance history storage unit that records
maintenance history, and
a display unit; and

15 the remote maintenance system acquires the date and
time of the maintenance last carried out from the maintenance
history storage unit and displays "Maintenance Not
Problematic" if the difference between the date and time
of the maintenance and the current date and time does not
20 exceed a required maintenance interval or displays
"Maintenance Problematic" if the difference exceeds the
interval.

2. A remote maintenance system according to Claim 1, wherein
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- 5 3. A remote maintenance system according to Claim 1, wherein
the system contains different required maintenance
intervals dependent upon the type of maintenance controlled
by the maintenance control section, and switches the
required maintenance interval corresponding to each type
10 of maintenance and displays "Maintenance Problematic/Not
Problematic".
4. A remote maintenance system according to Claim 1, wherein
the system displays restrictions concerning
15 utilization of the apparatus in case of "Maintenance
Problematic".
5. A remote maintenance system according to Claim 1, wherein
the system displays current status if maintenance
20 activity is being carried out in case of "Maintenance
Problematic".
6. A remote maintenance system according to Claim 5, wherein,
if any restriction concerning utilization of the
25 apparatus is caused, the system displays the restriction.

7. A remotemaintenance system according to Claim 1, wherein,
at the request of an operator, the system judges whether
the difference exceeds the required maintenance interval
and displays accordingly.

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8. A remote maintenance system according to Claim 1, wherein
the system judges whether the battery in the maintenance
monitor mechanism or in the apparatus-to-be-maintained has
run down and displays the result of the judgment.

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9. A remote maintenance system according to Claim 1, wherein
the system judges whether the current date and time
of the timer in the maintenance monitor mechanism or in
the apparatus-to-be-maintained is correct and displays the
result of the judgment.

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10. A remotemaintenance system according to Claim 1, wherein
the system is equipped with a GPS (Global Positioning
System) installed inside a mobile vehicle in charge of
maintenance activity, and transmits and displays the
current position data of the mobile vehicle from the GPS
to the display unit via the communication channel.

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11. A remotemaintenance system according to Claim 1, wherein
the system calculates the hours required until the

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5 12. A remote maintenance system according to Claim 1, wherein
the system is equipped with a maintenance history
storage unit installed in the maintenance center, and,
when the communication channel between the maintenance
center and the apparatus-to-be-maintained is connected,
10 compares the maintenance history recorded in the
maintenance history storage unit in the maintenance center
at the last connection of the communication channel to the
maintenance history recorded in the maintenance history
storage unit in the maintenance monitor mechanism, and
15 carries out remote maintenance if the two records agree
with each other or shuts down the communication channel
if not.

14. A remote maintenance system according to Claim 1, wherein
the system displays the required maintenance interval,
25 current time of the timer, and maintenance history in the

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